

State of Ohio Environmental Protection Agency

Southwest District Office

40 South Main Street Dayton, Ohio 45402-2086 (513) 285-6357 FAX (513) 285-6249



George V. Voinovich Governor

March 11, 1991

Carstab Corporation RE: Cincinnati, Ohio U.S. EPA ID #OHD000724138

Mr. Mark Dunnigan Ecology & Environment 111 West Jackson Boulevard Chicago, Illinois 60604

Dear Mr. Dunnigan:

Please find enclosed materials requested per your March 8, 1991, phone call concerning Carstab Corporation. Attachment A pertains to enforcement action leading to the installment of the slurry wall and french drain. Apparently Director's Findings and Orders (F&Os) were issued against Carstab which they then appealed. These F&Os were revoked through issuance of a second set of a second set of F&Os based on Carstab's willingness to cooperate with Ohio EPA in determining the extent of contamination at the Carstab site. After some additional prodding from the Director of Ohio EPA, Carstab did contract out for some investigatory and remedial work, resulting in the installation of the slurry wall and french drain.

Attachment B contains news clippings and memorandums documenting worker exposure and the resulting problems incurred by employees of Carstab. Finally, Attachment C is a copy of a technical bulletin put out by the Thiokol Carstab Corporation in 1981. also have two file folders full of technical bulletins describing various chemical products of Carstab's.

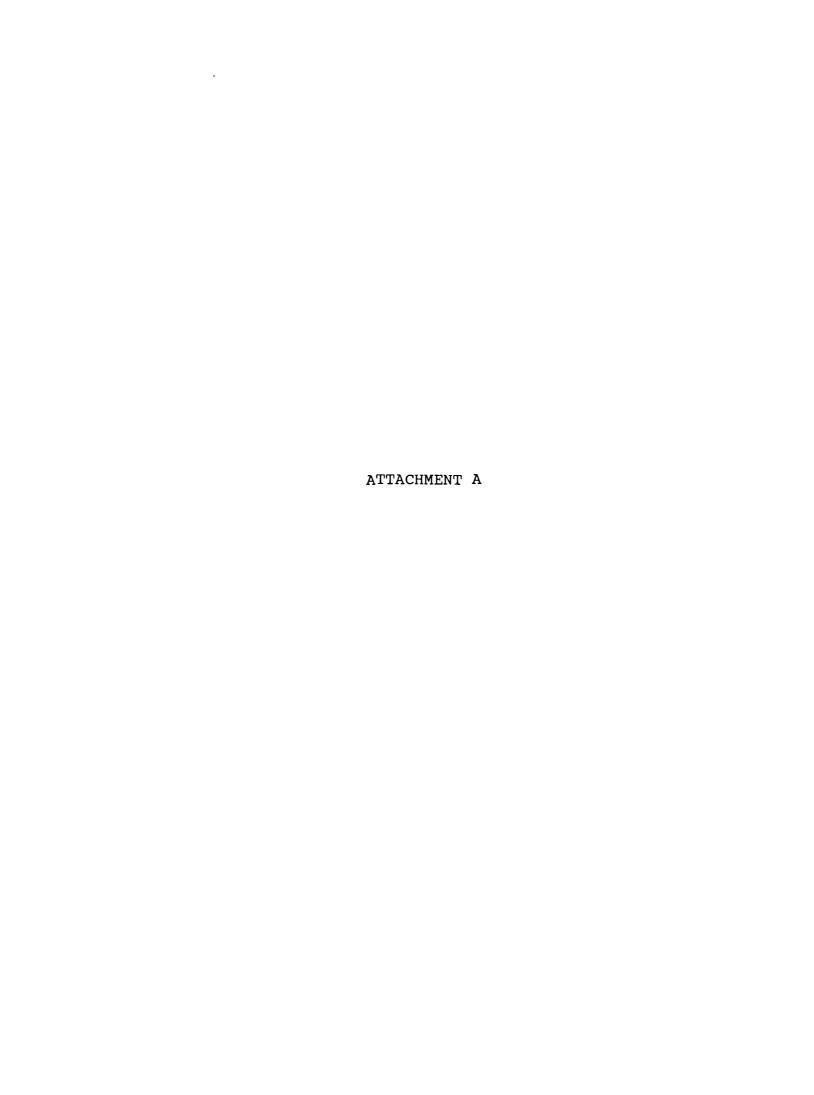
I hope this information is of use to you. If I can be of further help, please contact me at 513-285-6357.

Sincerely,

Amy F. Gibbons

Division of Emergency and Remedial Response

amy F. Subbolo



· pcs py



Re: Director's Final Findings and Orders

Carstab Corporation

U.S. EPA I.D. No. OHDO00724138 Ohio EPA I.D. No. O5-31-0227

December 2, 1982

RECEIVED

DEC 6 1982

Raymond Phillips, Materials Manager Carstab Corporation 1560 West Street Reading, Ohio 45215

Environmental Protection Agency SCUTHWEST DISTRICT

Dear Mr. Phillips:

Enclosed please find a copy of Director's Final Findings and Orders made and issued pursuant to the Ohio Revised Code Section 6111.03(H). The specific reasons for the action are indicated in the Order.

You are hereby notified that this action of the Director is final and may be appealed to the Environmental Board of Review pursuant to Section 3745.04 of the Ohio Revised Code. The appeal must be in writing and set forth the action complained of and the grounds upon which the appeal is based. It must be filed with the Environmental Board of Review within thirty (30) days after notice of the Director's action. A copy of the appeal must be served on the Director of the Ohio Environmental Protection Agency and the Environmental Law Bivision of the Office of the Attorney General within three (3) days of filing with the Board. An appeal may be filed with the Environmental Board of Review at the following address:

Environmental Board of Review 250 E. Town Street Room 101 Columbus, Ohio 43215

Very truly yours,

Dames F. Flautt, Supervisor Permit Data Management Unit

Permits & Manifest Records Section

Division of Hazardous Materials Management

JFF/bsr

Ohio Environmental Protection Agency ENTERED DIRECTOR'S JOURNAL

I certify this to be a true and accurate copy of the official document as filed in the records of the Ohio

Environmental Protection Agency.

cc: Charles J. Wilhelm, Chief, DHMM Sidney Stern, Staff Attorney, Legal Section Kathy Homer, U.S. EPA, Region V

Rich Shank, DHMM

Dave Strayer, SWDO, DHMM

DEC 2 1982

certify this to be a true and accurate copy of the official document as filed in the records of the Ohlo Environmental Protection Agency.

By: Juran Davis Date 12/1/82

Issue Date: Dec. 1,1982 Effective Date: Dec. 1,1982

BEFORE THE

OHIO ENVIRONMENTAL PROTECTION AGENCY

Ohio Environmental Protection Agency ENTERED DIRECTOR'S JOURNAL

DEC 1 1982

In the Matter of:

Carstab Corporation 1560 West Street Reading, Ohio 45215 Director's Final Findings

and Orders

Pursuant to the Ohio Revised Code Section 6111.03(H), the Director of the Ohio Environmental Protection Agency hereby makes the following Findings and issues the following Orders:

FINDINGS

- 1. Carstab Corporation, a subsidiary of Thiokol Corporation, (hereinafter referred to as "this entity") owns and operates a manufacturing facility located at 1560 West Street, Reading, Ohio 45215. This facility produces chemical additives for use in the plastics and petroleum industry.
- 2. Incidental to these manufacturing operations, this entity generates a variety of industrial wastes as that term is defined in Section 6111.01, Ohio Revised Code. Several of these industrial wastes are also defined as hazardous wastes pursuant to Section 3734.01, Ohio Revised Code.
- 3. This entity has, in the past, disposed of quantities of these industrial wastes on the premises of their manufacturing facility.
- 4. On June 9, 10 and 18, 1980, the Ohio Environmental Protection Agency (Ohio EPA) made a series of subsurface borings at this entity's facility as part of an investigation into possible sources of a chemical leachate which was observed entering Mill Creek from several locations along the stream bank at the west edge of this entity's property. Based upon laboratory analyses of groundwater and leachate samples collected, the investigation concluded that the presence of subsurface wastes at this entity's facility was the cause of this leachate.
- 5. On July 30, 1980, the Ohio EPA requested that this entity conduct such additional hydrogeological investigations at their facility as were necessary to locate, identify and further characterize the source(s) of pollutants present beneath their property and to determine to what extent the subsurface wastes previously disposed of at the facility were migrating from the site. The Ohio EPA also requested that these additional investigations conclude by recommending remedial or mitigative measures which this entity could implement to prevent any further off-site migration of these pollutants.

6. Subsequent hydrogeological studies performed by this entity concluded that there are at least two areas on their property which contain significant quantities of subsurface wastes, that these wastes have entered the ground-water and that these wastes are migrating via a lens of sand and gravel to appear as leachate where that lense outcrops on the stream bank. From this area, the leachate freely enters Mill Creek. Constituents of the waste include aniline, toluene, chlorobenzene and 1,2 dichlorobenzene, and arsenic, chromium and lead compounds.

Ke

- 7. Both the groundwater and Mill Creek are defined as waters of the state pursuant to Section 6111.01, Ohio Revised Code.
- 8. Section 6111.04, Ohio Revised Code, prohibits any person from placing any industrial waste in a location where they enter waters of the state and declares any such action to be a public nuisance except in such cases where the Director of the Ohio Environmental Protection Agency has issued a permit to allow such action. That section also prohibits any person to whom such a permit has been issued from causing to be placed in waters of the state any industrial waste in excess of the permissive discharges specified in that permit.
- 9. This entity has never applied for nor been issued a permit as required by Section 6111.04, Ohio Revised Code, and the wastes currently entering the stream contain pollutants are of such type and quantity as would exceed the permissive discharge limits in any permit which might be issued should the appropriate application be made.
- 10. This entity is therefore responsible for maintaining a public nuisance which must be eliminated in order to properly safeguard the environment and protect the public health and welfare.
- 11. It is technically feasible and economically reasonable for this entity to comply with the following orders.

ORDERS

- 1. This entity shall, within 60 calendar days of the effective date of these Orders, complete such additional studies as are necessary to determine the extent to which wastes from their property are migrating off-site and recommend remedial measures sufficient to prevent such off-site migration to Mill Creek and groundwater. Those studies should include, but not necessarily be limited to, the identification of all areas where wastes are or have been buried on the property, an estimation of the types and quantities of waste in each of those areas and information concerning the migration rate and direction of travel of those wastes, and analysis of sediment in Mill Creek. The proposed remedial measures may address each area separately or the entire site as a whole.
- 2. A detailed report of these studies, including general construction drawings of the recommended remedial measures, shall be prepared and submitted, in triplicate, to the Ohio EPA, Southwest District Office, 7 East Fourth St., Dayton, Ohio 45402, within 75 calendar days of the effective date of these

Orders. I certify this to be a true and accurate copy of the official document as filed in the records of the Ohio Environmental Protection Agency.

Ohio Environmental Protection Agency
ENTERED DIRECTOR'S JOURNAL

By: Viral Datio Date 12/1/82

DEC 1 1982

- 3. After the report required by Order No. 2 has been reviewed and approved by the Ohio EPA, this entity shall construct those facilities which are identified as necessary to prevent the off-site migration of wastes. This construction shall proceed on a schedule acceptable to the Ohio EPA and it shall be this entity's responsibility to obtain any permits which may be required prior to initiating that construction.
- 4. In order to implement Order No. 3, above, after the Ohio EPA has reviewed the report submitted by this entity and approves the proposed mitigative action as to concept, these Orders shall be modified to include a schedule for the construction of the required control facilities. That schedule shall include elements for the submission of any applications for any permits which must first be obtained from this Agency.

Wayne S. Nichols : Director

I certify this to be a true and accurate copy of the official document as filed in the records of the Ohio Environmental Protection Agency.

By: <u>Union</u> Date 12/1/82

7/~ 30,1982 Date

Ohio Environmental Protection Agency
ENTERED DIRECTOR'S JOURNAL

DEC 1 1982

TAFT, STETTINIUS & HOLLISTER

ACK SWIGERT OBERT TAFT, JR. MURPAY S MONROE ROBERT G. STACHLER FRANK H. STEWART JAMES J. RYAN POBERT J. TOWNSEND THOMAS Y. ALLMAN FREDERICK O. KIEL MELZIN S. SHOTTEN ROBERT W. MAXWELL II JOHN P. WILLIAMS, JR. HENRY C KASSON ROBERT E. RICH JAMES M ANDERSON G JACK DONSON, JR. FORMAN FRIEND, JR. DAVID L.JOHNSON LAWRENCE J. BARTY LAWRENCE D. WALKER DONALD C HESS

LEONARD A.WEAKLEY HULSE HAYS, JR. CHARLES D. LINDBERG JAMES R. BRIDGELAND, JR. WILLIAM V. FINN WILBUR L.COLLINS L.CLIFFORD CRAIG WILLIAM K. ENGEMAN RONAL R NEWBANKS THOMAS D. HEEKIN J. ALAN LIPS GERALD J. RAPIEN CYNTHIA F. BLANK STEPHEN M. NECHEMIAS G. DAVID SCHIERING R. JOSEPH PARKER TIMOTHY E. HOBERG RICHARD S. ROBERTS RICHARD D.SPOOR THOMAS C. HILL THOMAS T. TERP ROGER A. WEBER ROSS E. WALES

FIRST NATIONAL BANK CENTER

FOUNTAIN SQUARE

CINCINNATI, OHIO 45202

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DAYTON, OHIO TELEPHONE 222-0050

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JAMES M. HALL, JR. W. STUART DORNETTE TO LINOTHY J. OUINN FRANCIS V. GUDORF DANIEL J. HOFFHEIMER TIMOTHY J. HURLEY STEVEN N STEIN
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DANIEL O CONKEE STEPHEN M. GRIFFITH, JR BARTON A. BIXENSTINE ROBERT B. CRAIG

JOHN W. HUDSON DAVID G. GAMBLE ROBERT T. KEELER OF COUNSEL

Mahuary 6, 1983

Mr. Wayne S. Nichols, Director Ohio Environmental Protection Agency 351 East Broad Street Columbus, Ohio 43216

> Carstab Corporation v. Wayne S. Nichols, Director Ohio Environmental Protection Agency

Dear Mr. Nichols:

Enclosed is a copy of the Motion to Voluntarily Dismiss which we are filing in the above-captioned case.

Joseph Párker

RJP: va

J. THOMAS CRUTCHER WILLIAM H. BLESSING LAWRENCE G. MACKOWIAK WILLIAM F. RUSSO PAUL C. SUNDERLAND

BARBARA E. ULLMAN KIM K. BURKE * THOMAS A. SOBECKI ANNE COLE-PIERCE

+ON MILITARY LEAVE

TAFT, STETTINIUS & HOLLISTER

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DONALD C. HESS

HULSE HAYS.JR. CHARLES D. LINDBERG JAMES R. BRIDGELAND, JR. WILLIAM V. FINN WILBUR L.COLLINS L.GLIFFORD CRAIG WILLIAM K. ENGEMAN RONAL R. NEWBANKS THOMAS D. HEEKIN J. ALAN LIPS GERALD J RAPIEN CYNTHIA F BLANK STEPHEN M NECHEMIAS G. DAVID SCHIERING R. JOSEPH PARKER TIMOTHY E HOBERG RICHARD S. ROBERTS RICHARD D. SPOOR THOMAS C. HILL THOMAS T. TERP ROGER A WEBER ROSS E. WALES

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J. THOMAS CRUTCHER TIMOTHY J. QUINN EDWARD D. DILLER WILLIAM H. BLESSING LAWRENCE G. MACKOWIAK STEVEN W.WEEKS M. MAYNARD HOLCOMBE, JR. WILLIAM J. SEITZ III SALLY S. HAMILTON JAMES H. BRUN WILLIAM F. RUSSO MARK S. SAUTER PAUL C. SUNDERLAND DAVID J. MENKHAUS BARBARA E. ULLMAN KIM K. BURKE * THOMAS A. SOBECKI MARK J. STEPANIAK ANNE COLE-PIERCE

ON MILITARY LEAVE

*83 JAN -7 A10:42

January 5, 1983

JOHN W. HUDSON DAVID G. GAMBLE ROBERT T. KEELER OF COUNSEL

Sidney Stern, Esq.
Ohio Environmental Protection Agency
351 East Broad Street
Columbus, Ohio 43216

Re: Carstab Corporation

Dear Sidney:

This is confirm the agreement we reached in our meeting at Carstab on January 4, 1983. The Director will withdraw his Final Findings and Orders of December 1, 1982. As soon as we have been officially notified of that withdrawal, we will withdraw the Notice of Appeal from that Order.

No later than January 15, Tom Ontko will provide Carstab in writing with a list of information which the EPA believes is necessary. No later than February 15, Carstab will confer with Mr. Ontko to advise him which information is available, which will have to be developed and which, if any, cannot be developed. Assuming that Carstab and Mr. Ontko are able to reach an agreement as to the items to be either produced or developed, they will also agree by February 15 to dates by which the agreed-upon items will be supplied.

After all information has been exchanged, we will have continued discussions to determine what the next steps should be.

Sidney Stern, Esq. January 5, 1983 Page 2

We realize that our agreement and the withdrawal of the Final Order is without prejudice to OEPA's right to refile the Final Order at anytime.

Your cooperation in resolving this difficult problem is greatly appreciated.

Sincerely yours,

R. Joseph Parker

RJP:vra

cc: Mr. Ralph Binns
 James R. Stanley, Esq.

BEFORE THE

OHIO ENVIRONMENTAL PROTECTION AGENCY

In the Matter of:

Carstab Corporation 1560 West Street Reading, Ohio 45215 Director's Final Findings

and Orders

Pursuant to the Ohio Revised Code Section 6111.03(H), the Director of the Ohio Environmental Protection Agency hereby makes the following Findings and issues the following Orders:

FINDINGS

- 1. On December 1, 1982, Final Findings and Orders were issued to Carstab Corporation, Reading, Ohio, which required the company to comply with certain orders contained therein.
- 2. On January 4, 1983, representatives of Ohio EPA met with representatives of Carstab to discuss the Findings and Orders and to clarify any points which remained unclear relating to the Orders.
- 3. As a result of that meeting, the Ohio EPA has agreed to provide Carstab with a list of questions to be answered and Carstab has agreed to furnish all materials and data required to answer the said list of questions. OEPA will provide the list by January 15, 1983 and Carstab will produce the information by February 15, 1983.

ORDERS

1. The Findings and Orders issued to Carstab Corporation on December 1, 1982 are hereby revoked.

Wayne S Nichols

Director

of the

Unio Environmental Protection Agency ENTERED DIRECTOR'S JOURNAL

JAN 1 2 1983

I certify this to be a true and accurate copy of the official document as filed in the records of the Ohio Environmental Protection Agency.



RECEIVED

JUN 7 1983

Environmental Protection Agency SOUTHWEST DISTRICT

May 23, 1983

Mr. Ralph Binns, President Carstab Corporation 1560 West Street Cincinnati, Ohio 45215

Dear Mr. Binns:

I am writing to you concerning the environmental condition of your facility in Reading. Investigations by this Agency have disclosed that several old disposal lagoons on your property are leaching a wide variety of pollutants into Mill Creek, including the hazardous chemicals chlorobenzene, dichlorobenzene, dichlorethane, toluene, trichlorethylene, analine and phenol.

I am further advised by my staff that discussions concerning remedial actions have been ongoing since 1979, with little, if any, affirmative and positive commitment towards remedial action being taken by your company. Indeed, it has been strongly recommended to me to refer this matter to the Attorney General of Ohio to force remedial actions by your company and seek civil penalties and damages for polluting the waters of the state.

Prior to referring this to the Attorney General, representatives of Ohio EPA would be willing to meet with officials of Carstab to discuss any serious commitments or proposals that Carstab may have for remedial actions that would enable this matter to be resolved without litigation.

Should you desire to meet and seriously discuss this matter, please contact Mr. Ben L. Pfefferle III of my legal staff at (614) 466-3491.

Sincerely yours,

Robert H. Maynard

Director

RHM:cw

cc: Morton Thiokol, Inc.
 Terrence Fay, Esq.
 J. Joseph Parker, Esq.

RECEIVED OHIO EPA

MAY 25 1983

DIV. HAZARDOUS MATERIALS MANAGEMENT

West Street Reading, Ohio 45215 513/554-1554

RELATION CARSTAB CORPORATION

*83 JUN -6 A11:05

Ralph S. Binns President

June 3, 1983

OFFICE OF THE COME TO CO.

Mr. Robert H. Maynard, Director Ohio Environmental Protection Agency 361 East Broad Street Columbus, Ohio 43216-1049

Dear Mr. Maynard:

This will acknowledge your letter of May 23, 1983 regarding the environmental condition allegedly existing at our Reading plant.

While we disagree with a number of the statements and implications in your letter, we have been in touch with Mr. Pfefferle of your legal staff for the purpose you suggested. It is our hope and desire that Carstab and your agency can agree on the terms of a remedial plan that is both reasonable in its approach and effective in remedying any problems that may exist on the site.

Very truly yours,

R. S. Binns President

jsf

cc:

J. R. Stanley

R. C. Witman

J. J. Parker



June 27, 1983

Mr. Ralph S. Binns, President Thiokol/Carstab Corporation West Street Reading, Ohio 45215

Dear Mr. Binns:

I am writing to acknowledge receipt of your letter dated June 3, 1983.

It is my desire that your company and Ohio EPA agree on a satisfactory remedial plan that will effectively alleviate and cure the environmental problems at the site in an expeditious fashion. Mr. Pfefferle is keeping me advised of the status of this matter so that I may closely monitor its progress.

However, if Carstab fails to make a good faith effort to develop and implement an effective remedial plan, I will reserve the right to pursue legal remedies.

Thank you for your prompt response and interest in this matter.

Sincerelly yours,

Robert H. Maynard

Director

RHM/mts

cc: Ben L. Pfefferle, III Edward Kitchen, DHMM ATTACHMENT B



Wemo

Ed Blankenship

From

Larry P. Krantz

CC:

A. C. Noble I/ Johnson

File Ed Blankenship

Location

Chemicals

Date

December 20, 1977

Subject

VERBAL REPRIMAND AND

WARNING -

I mudicipated that surface to the second THE DEED STATE

This will confirm the counseling session between us on December 14, 1977, at which your Foreman, J. Johnson, was also in attendance.

人名法格拉 计成功符

You were told that you had 212 hours off, to date, this year, and that no improvement has been made in your attendance since the reorganization of Development to Manufacturing. It was noted that west performance when on the job had improved, but that that is only half of what is expected of you.

You were instructed that unless you.turned in a perfect record of attendance over the next five to six weeks, and then also make a drastic improvement in your attendance, that you would be suspended for a period of three working days, without pay.

You said that you hadn't realized you had lost that much time, and that you would definitely improve on your regord.

Larry P. Krantz

LPK/fd

I, Ed Blankenship, understand that due to my poor attendance record, that it is expected that I will improve by future attendance record and demonstrate this by maintaining a perfect attendance record for the next five or six weeks. I understand that should I fail in this commitment, that I can be expected to be suspendedrimon the payroll for three working days.

(Date)

Riders, Rodents Share Shelters of On Gov. Square

OBSERVATION DEPARTMENT: II The new Government Square bus shelters would be even better if the city of Cincinnati solved a rat problem in the area.

Rats have been observed --coming from around trees planted in cement on the square.

JUDICIAL CANDIDATE JACK JENNEWEIN has kept his sense of humor during the campaign.

He .: like others ... laughed when the Cincinnati Bar . Association rated him "unqualified."

When a recent edition of the Catholic Telegraph ran his campaign ad in a column between an ad for a FUNERAL HOME and some OBITUARIES, he told friends "I don't suggest that " the Cincinnati Bar Association is responsible for the political ad ... location, but having tried to bury: my candidacy once they are not above suspicion"

Jennewein added that he's placing his "faith" in an ad placed by the Telegraph just below his ad . . . That ad read: "Our ads produce results."

VERNON (RED). THORNBURGH . . : once the voice of the Cincinnati Reds and a sportscaster in the Queen City for three decades, spanning the 1930s to the 1950s ... recently celebrated his 71st birthday ... TWICE.

Thornburgh was vacationing In the Orient. On October 15 he was in Hong Kong and had a birthday party. After the party the plane headed for Tokyo for fuel and then to Seattle, En route the plane crossed the international date line and it' again became October 15. Red got another birthday party.

* * * * * * BENGAL FANS might take ... some hope in the equally poor play of Ohio's other professional a football team.

kers Sca

BY BEN L KAUFMAN Enquirer Reporter &

Their love lives wilted, their marriages failed, and at work, they suffered chronic absenteelsm and inexplicable strife.

And making life even harder was the feeling Cincinnati Milacron Chemicals Inc. did not care when these troubled men raised questions about health and safety in their building.

"Everyone thought. we were a: bunch of nuts," Ed Blankenship recalled Tuesday. "Nobody would as-

THESE TROUBLED men made dimethyltin dichloride at the Reading plant. Present and past employees interviewed by The Enquirer about their problems were, as a group, hostile.

They accuse management of ignoring signs of trouble on three shifts every day; of running the production line when ventilation was inadequate and pollution control equipment was faulty, and of paying them to work on what one man called "the biggest jury-rig you seen in your life" in the Building 27

"You couldn't see the door sometimes for the 'fumes;" Herb Burns

And making life still worse is the suspicion some men took better lobs as payment for silence, or "ratted" when coworkers began addressing health questions on the job.

TODAY, THE workers say their emotional and physical problems are caused by dimethyltin dichloride, its ingredients or chemicals given off during production.

They may not be typical, but four of the men who spoke to The Enquirer provide insights into the turmoil faced by possibly two dozen colleagues in the last eight years at Milacron.

. Blankenship, 47, who won his battle with alcohol and had a Christian conversion two years before joining Milacron, sawhis new approach to life deteriorate as he worked with dimethylan dichloride.

. Ken Roberts, 29, called himself a "chronic bitcher" about job safety.

He took a better job, when the company offered was a bld for si-

lence, and then he complained long and loudly about what he feels the chemicals did to his competitive, aggressive approach to life.

· Austin Reed, 48, took seriously what the men sald was management's recommendation to anyone who did not like safety conditions in the nonunion chemical works: "Hit the gate."

. Burns, 57, said Building 27 was

MEN INTERVIEWED said their emotional and physical problems eased as they got away from the dimethyltin dichloride process, but there is a fear some handicaps will linger. Occupational Safety & Health . Administration . (OSHA) officials said too little is known about the chemicals to-which they were exposed to assure them other-

Anger and paranola are symp-toms of chemical intoxication involving compounds found at Milacron, OSHA officials said, but the men insist anger and paranola are healthy, given their experiences.

·Blankenship and the others laughed heartily when told of a bumpersticker, "Paranoids Have Enemies, too."

Blankenship said it was years before he and his fellows grasped "something at work had caused a lot of men to lose their sex Interest." Asa group, they were more likely to boast of their prowess than to discuss sexual inadequacy, he said.

From that talk came the accounting of broken and troubled marriages. ..

BLANKENSHIP AND his wife spoke of their torment, especially poignant since it followed his accepting Christ and a welcome turnabout as a husband and father.

He started in Building 27 in 1973 and did not see a physician; until this March: Those were bad years."

Impotence, anger and violence marred their relationship. She suffered, trusting to God that better would come.

"One of us had to leave," Hazel Blankenship, a quiet woman, recalled of early 1978. He had torn apart the k n in a rage. Fearing his tem nkenship had rented an apart and was ready to move ut the second second -outr

survey. Few adults know all the answers, either. Lung ociation wants new law passed stop cigarette sale to minors. Page C-3. IL DONNOR CONTRACTOR OF THE PROPERTY OF THE PR



Wednesday, October 25, 1978

"I came close to killing her twice," the big, gentle man said, givwith a warm smile. They could shile: In almost seven months away from Milacron, his moods had turned sharply for the better.

Their children, who had restrained his violence more than once. "hated to see him walk. through the door," Mrs. Blanken-ship said. "They knew something was wrong with their father."

Today, a loose, warm camaraderie is evident among father and

BLANKENSHIP WAS among the lucky. Reed and his wife are separated. At least seven others have been divorced, Blankenship said. Few came through without deep

When the employees went to management with questions about the safety of the materials with which they worked, they were re-buffed, Blankenship and others said: "They did discourage ques- ... tions," a younger worker added.

They were hassled over absenteelsm, Blankenship sald, but when they asked for physicals, company officials said providing the examinations would be admitting a problem existed with dimethyltin di-When Reed was interviewed first

fon this story, he said, "It's bad enough for me to start looking else-

Reed said he resented management's response to complaints: "They're always insinuating it's all in your mind." addity.

REED WAS a maintenance worker-with more than 10 years with the firm when he was put on the "tin" compounds production

"Nobody else wanted the job," he said, recalling "a lot of open fumes" in Building 27. He would "feel bad .: all the time.

He stayed with it because it allowed him; nights free to follow his: talents as an evangelist. . .

Last week, he quit, dedicating . himself full-time to the Charity House of Prayer holiness church he opened at 913 Martin Pl.

Jidstillty to the company b so acute that men took shift rec



Enquirer photo BY MICHAEL E. KEATING ED BLANKENSHIP, with his wife, Hazel

- Maria Conta for equipment problems and different waste handling procedures when Metropolitan Sewer District inspectors were in the area.

TUESDAY, MILACRON admitted it had not provided adequate medical surveillance in buildings where dimethyltin dichloride has been made at various times since 1970. The admission followed a citation

to that effect by OSHA. "Twenty-seven was the Hell-

hole," Ken Roberts said. " "Twenty-seven was where everybody was hurt. The whole thing was atroclous: PRESENTE OF THE PROPERTY OF "We were the Guinea pigs and] they collected the money. Roberts said when he complained Roberts

13 to 1930 - Philadelphia which appear to show a disregard recalled, "I was told to 'hit the gate'."

Roberts took a job away from dimethyltin dichloride, but he told

his replacement: "You be careful with this stuff." You walked in here on two legs and , you want to walk out the same way."

Roberts, his wife and father-inlaw built a handsome home near. Perintown in Clermont County:

Today; he spends more time sitting around thinking about all the work left undone. "I don't have the

.And drawing on the baseball metaphor from his youth as a high school star, Roberts said,"My mind wants to wander off in left field on you. A lot of things I can't remem ber any more."

OEPA Tours Waste Site, Plans Testing

BY BEN L. KAUFMAN

Enquirer Reporter

READING—Chemical company officials Monday admitted toxic wastes are buried on the former Cincinnati Milacron Chemical Inc. property.

Earlier in the day, representatives of Carstab Corp., the new owners, guided an Ohio Environmental Protection Agency (OEPA) inspector to eight sites.

And the former owners, Cincinnati Milacron Inc., claimed they had done nothing illegal during the 30 years they owned the facility and buried their industrial wastes there.

Carstab guides "told me what had been done in various areas," said Mike Dalton, an OEPA geologist.

"THEY HAD a map marked with locations ... where materials had been dumped. The earliest date they had was 1950."

In addition to one lagoon, a land burial site still was in use, Dalton said. "They were still

dumping small amounts there."

Dalton's visit was part of OEPA's investigation of toxic wastes oozing through the soil into the nearby Mill Creek. Neighboring properties, Cincinnati Drum Service Inc. and Pristine Inc., also are being examined.

Thickel Corp. of Newtown, Pa., bought the Milacron Chemical works in April and renamed

it Carstab.

At Milacron headquarters in Oakley, press officer John Reading read the company's formal response to questions about its waste handling practices in Reading:

"DURING THE time that Carstab Corp. was owned by Cincinnati Milacron Inc., the corporation complied with the applicable governmental regulations, relative to the disposal of chemical wastes on its West Street property."

He would not answer questions about those wastes, dumping practices or regulations. Previously, Milacron officials said the wastes no long-

or were their property or problem.

State and federal officials said Milacron may be right about the legality of their waste disposal sites, but the company may be liable if those legally buried chemicals are polluting the creek or ground water illegally.

The most recent waste burial was 1973, according to Dalton's guides, but former Milaeron employees said they filled steel drums for on-site

burial or buried them as late as 1977.

And they warned Dalton he was talking to company men who were too new to know what had been done.

Dalton said he is aware of that. "Their information is what they've been told," he said. "I don't necessarily accept what they say as the final word."

WHEN ASKED what he had shown Dalton Monday morning, Carstab's Bob Neubert said, "I'm sorry, I have no comment." Dalton could not remember the second man's last name when interviewed.

When Carstab President Ralph Binns was called for comment, an aide said, "He is in a meeting." Binns, a long-time Milacron Chemical

official who stayed when Thickel Corp. bough the works, has not returned calls.

Dalton said he still hopes to talk with mer who worked at Milacron when wastes wer buried there.

After his tour and a conference with Miles Datesman, a colleague from OEPA's emergency response team, Dalton planned to "check over that whole area with my metal detector."

He is looking for steel drums which former employees say are under as much as 15 feet of soil. Dalton also plans to use an auger to take soil samples as deep as 21 feet.

IF THE chemicals leaked into sand and gravel, he says he will be able to find them in water samples.

That is what another OEPA investigator, Bill Barrow, said he believes has happened. It would explain the chemicals "leaching" through the

soil and creek banks.

Dalton's soil samples will be analyzed by the Ohio Department of Health and compared to tests of pollutants collected along company property at the Mill Creek. If matching wastes can be found in soil samples, OEPA has the basis for an enforcement action against a specific company.

In the absence of further evidence, Dalton repeated an OEPA assurance that the seepage is not a clear and present health hazard so far. It is against the law to allow pollutants into the stream and that is what keeps OEPA on the job,

he noted.

Poisons Buried By The Skid-Loads?

READING—Former Cincinnati Milacron Chemical Inc. employees Monday warned state officials that a tour of the company's former property is not a reliable guide to locations and volume of industrial wastes buried there.

One employee, Ed Blankenship, told Ohio Environmental Protection Agency (OEPA) officials Mike Dalton and Miles Datesman that Milacron Chemical used two buildezers to handle the waste burial in the field on the southwest corner of the fenced company land. That is the part nearest community recreation areas.

BLANKENSHIP RECALLED preparing barrels of waste for burial

workers in the plant could back them up, but remain silent out of fear for their jobs.

Monday, one of those men said he saw dozens of drums "hauled back there" to a pit and waiting buildozer for burial. Asking his name be left out of the paper, he guessed "at least 100" drums are buried in the field inside the fenced property. "I know they're buried there..."

Some waste came from hurried cleanups in anticipation of inspections by the Occupational Safety Health Administration

OTHER WASTES, including "bad

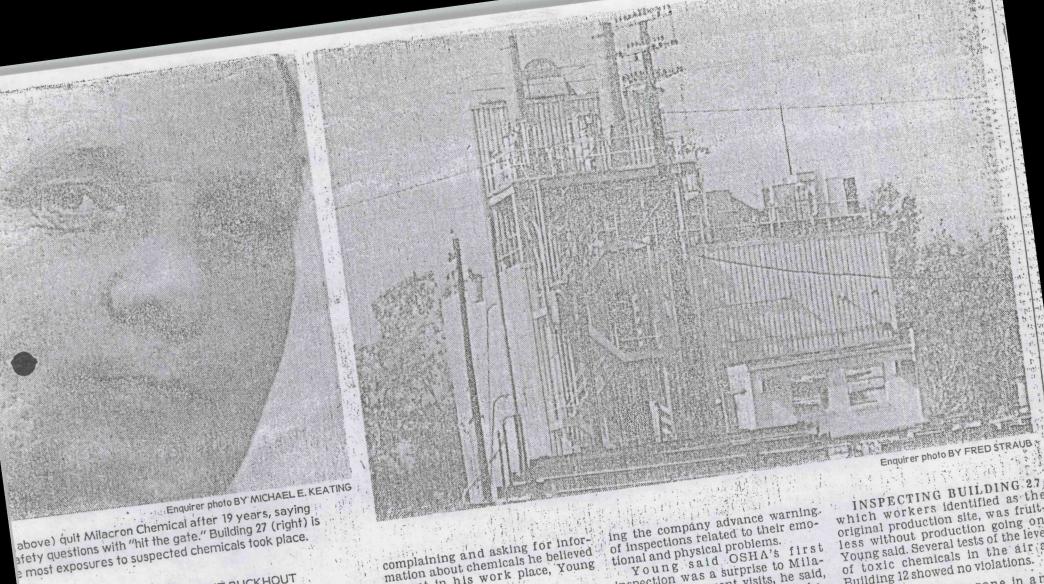
HA), Blankenship said.

OSHA two years ago with complaints about health hazards in the buildings where dimethyltin-dichloride was made. The OSHA investigation led to citations and fines

Dalton said Carstab Corp.'s Bob Neubert and a second Carstab man knew what was in "some of the drums" they led officials to on Monday's tour. Employees said they did not know the contents of other drums. Fewer than a dozen drums were buried, according to them, although other wastes were poured into or legoons, which have been contents of with dirt.

OEPA has known about the pollutants leaking into the Mill





BY WAYNE BUCKHOUT :. Business Reporter

Ronald J. Young said "it really hurt" him to hear Cincinnati Milacron workers accuse him of ignoring a serious health problem at their Reading chemical plant.

Young said he and others at the Cincinnati area office of the Occupational Safety & Health Administration (OSHA) went beyond standard procedures to inquire into the single, informal complaint March

The caller was Edward Blankenship, who had worked at the Reading plant making a chemical additive for plastics since 1973. The additive is called dimethyltin di-

He came to OSHA the next day,

complaining and asking for information about chemicals he believed present in his work place, Young

"He was confused. He started talking about killing people," Young said. said. "I began to wish I hadn't closed the door to my office."

BLANKENSHIP TALKED about fits of aggression, loss of memory and other symptoms among men producing the chemical. But he could not identify the location of the plant and refused to make a for-

mal complaint, Young said. Looking back, with six months away from those chemicals, Blankenship knows how menacing he had

me of Blankenship's coworkuse OSHA inspectors of giv-

tional and physical problems.

Young said OSHA's inspection was a surprise to Milacron. On subsequent visits, he said, he called Milacron the evening before morning visits to avoid difficulties getting through the gates.

And at least once, his inspectors sampled suspected spots on the second, afternoon shift on a surprise

visit, Young added. OSHA officials soon learned Milacron produced dimethyltin dichloride in Reading, They also learned Milacron had reduced the hazard to employees by moving production of the chemical to a newer facility, Building 12, at about the same time the complaint was filed, he s

which workers identified as the original production site, was fruitless without production going on, Young sald. Several tests of the level of toxic chemicals in the air at Building 12 showed no violations.

"We could have gone in and measured and found airborne levels low and say 'that's it-case closed. We didn't do that," Young sald,

Instead, OSHA hired a team c physicians at the University of Cir cinnati to examine 18 men who he worked in Building 27.

The analysis of those tests is n complete, but Young said intervie with some of the men confirm t

workers' self-diagnosis:

"What clearly comes through that there are people who are sicl

Ailacron plant

By Douglas Start Process of Proce

For Health-Safety Violat

and WAYNE BUCKHOUT Enquirer Reporters

Cincinnati Milacron admitted Tuesday that it failed to provide adequate medical protection for chemical workers at its Reading; plant and agreed to pay a \$300 fine 22. The Occupational Safety & Health

Administration (OSHA) cited Milacron Chemicals Inc. Monday, saying it violated the 1970 Occupational Safety and Health Act. 1915

OSHA cited the section which requires an employer to furnish a work place "free from recognized hazards that were causing or were likely to cause death or serious physical harm

THE CITATION orders Milacron to up grade its medical surveillance of affected employees by November 22. We will be OSHA complaint," John P. Reading, Milacron public relations director, said late Tuesday.

"We recognize that we did not have adequate medical surveillance and that's what we were cited for."

Milacron has posted the violation notice, at its chemical plant, he added.

OSHA officials say they do not know how many men have been affected by chronic and. acute exposure to dimethyltin dichloride at Milacron. The Milacron spokesman said:

dditive called dimethyltin dichloride as the:: production: line, on which suspicion centers:

on the inside.

More stories, photos on Page C-1:

* SHUDDONNERS AND SHOW THE cause of the reported emotional and physical problems) | Service | All the land of the organical in

Reading said Milacron now believes the dimethyltin dichloride is not what made workers sick. Only exposure to other chemi-cals released during dimethyltin dichloride production caused the problems, he said.

of MEDICAL REPORTS, to date have not drawn such distinctions.

ees interviewed by The Enquirer said their a minds and emotions were "scrambled" as a result of working with dimethyllin dichloride.

Marriages falled or suffered from impotence and anger which the men blame, now on exposure to chemicals at Milacron, " and all The men did not hesitate or blush when

they talked about such personal relations." "Our love life deterlorated almost to nothing," one employee sald.

OSHA Industrial Hygienist Ronald J. Young, who first inspected the Milacron chemical facilities in March, told The Enquirer, "We have men who have been made sick there."

Section 5(a)(1) of the 1970 federal law is a

"fewer than 20" workers are involved. " catchall clause used by OSHA when circum-Preliminary medical and industrial hy-stances prevent it from pinning down more glene studies point to production of a plastics specific charges. In Milacron's case, the

Dimethyllin dichloride was made in a ble exposure." pliot plant in Building 27. for about eight (40.7) Another member of the OSHA consulting years, the Milacron spokesman said, and (2 team, neurologist Dr. John Steiner, said more recently, in newer Bullding 12.10705-

MILACRON CLOSED down the Building 27 production line early this year, before employee Edward Blankenship went to OSHA in

March, Young sald.
OSHA inspectors checking production in Bullding 12 since that first complaint have found no health violations, Young added, and Milacron has co-operated with OSHA during the continuing investigation. Knill 44 kg

Young said that helpfulness was one reason Milacron was not fined the maximum

\$1000. Although it cost about \$500 per man. OSHA decided to pay for thorough physicals: for Milacron employees who had worked on dimethyllin dichloride. It wanted to know. more than inspections showed, Young said.

Eighteen workers accepted OSHA's offer free examinations.: 7 as

. Dr. W. Donald Ross, a Cincinnati psychiatrist who examined some of the men, referred to "tin poisoning" in a Workmen's Compensation report on Blankenship.

The family of chemicals of which dime-thyltin dichioride is part is known commonly as "organo-tin" or simply "tin" compounds.

Blankenship, who first alerted OSHA to problems at Milacron Chemical; provided The ; Enquirer with his medical records.

ROSS ATTRIBUTED Blankenship's problems to "exposure to chemicals in the organic

was shut down before the first complaints; tin process since these symptoms were so reached OSHA, Young explained: 1 have a resignation to those of other men with compara-

Blankenship suffered "dimethyltin intoxication" at Milacron,

Men interviewed by The Enquirer call Building 27; a three-floor pliot plant, the "Hell hole."

They accuse Milacron of callously disre-

in the nonunion shop. Some have They lalso report that many of the problems they attribute to working on the dimethyltin dichloride process have eased since leaving Milacron (1994) 1994 De Young said there is too little human re-

search on dimethyllin dichloride or its ingredients to know if, all of the symptonis will vanish.

OSHA'S CHIEF medical consultant, Dr. Edward A. Emmett, who directed the team examining Milacron workers, said Tuesday he has not analyzed the findings fully. Still, he supported OSHA's insistence that Milacron more closely monitor the health of employees. exposed to the tin compound manufacturing.

process.

Workers did more than complain about conditions inside the Milacron buildings. They also asked whether neighbors in Reading were exposed to dimethyltin dichloride, Some of the men say that external pollution control equipment in Building 27 was faulty.

OSHA Centers New Inquiries In 1 Building

BY BENL KAUFMAN Enquirer Reporter

The Occupational Safety & Health Administration (OSHA) Thursday renewed its questioning about worker complaints at Cincinnati Milacron Chemicals Inc. in Reading.

New OSHA queries concentrated on Building 27 that workers call the "Hell hole" Thursday, Ronald J. Young, OSHA industrial hygienist, asked Milacron officials about every chemical made in Building 27 during. late 1977 and early 1978. Those were the months Milacron concedes it had repeated. production "upsets" there

He was looking for chemicals, other than those involved in producing the suspect dimethyltin dichloride, which might be associated with the workers' physical and emotional problems.

MEANWHILE, AT the National Institute of Occupational Safety & Health (NIOSH), Dr. Trent R. Lewis said reported worker symp toms_rage, depression, impotence_resemble those known to result from brief but intense exposure to methyl chloride. Methyl chloride is an ingredient in Milacron's dimethyltin dichloride production process.

Lewis is in charge of research into toxic: chemicals for NIOSH at the Tait Research Center in Cincinnati. He is not involved in the Milacron investigation

Young and others at OSHA say their evidence points to methyl chloride as the cause of the workers' problems. But a final determination must await final analyses of detailed physicals on 18 Milacron workers. The analyses are incomplete.

Young inaugurated the original investigation of Milacron in March after Milacron chemical worker Ed Blankenship complained exposure to dimethyltin dichloride was destroying him, his marriage and his

From the start, OSHA "limited the scope of our inspections" to dimethyltin dichloride, Young said. "That's the compound he (Blankenship) discussed. That's the compound we investigated."

BUT BLANKENSHIP and other workers including Herb Burns and Ken Roberts, say OSHA did not look far enough when they

"There's something to that," Young conceded Thursday afternoon. "There are other things that we could look at."

OSHA did not know what else was made in Building 27 before or during its inspections, Young acknowledged "I guess I probably should at least inquire what is made there.

II they are running something that is hazardous, I will sample the air," he promised Thursday afternoon, and within an hour. Young had checked with Milacron.

Interviews and medical examinations of workers from Buildings 27 and 12, where dimethyltin dichloride has been made at various times since 1970, disclosed complaints of uncontrolled rages, inadequate sexual lives: and "scrambled" minds and memories. Marriages collapsed or suffered as a result.

Young said Blankenship's initial insistence the dimethyltin dichloride production process was making the men III persuaded OSHA to limit the investigation to that chemical.

"I guess we went into it with blinders on." Young conceded "We only investigated the one process."

Young denied Milacron employees told him of organic tin compounds being made in Building 27 during his inspections. He also denied their allegations that he refused to inspect Building 27 when production of other chemicals was going on.

Building 27 is a pilot plant for Milacron Chemicals, where products go from research. and-development to limited production

Young's conversations with Milacron officials Thursday disclosed another tin compound, butyltin, had been made in Building 27 in March after-OSHA began sampling the air in Building 12 where dimethyltin dichloride was being made

"No one told us they were running those batches of butyltin until too late," Young said:

Similarly, no one complained to OSHA. about problems, associated with dimethylting dichloride while it was being made in Build-

Nothing in butyltin relates to the reported symptoms, Young said, so he is comfort able with his initial investigations.

"It all points to dimethyltin dichloride in 27," he said.

Syene Reports 1 is impossible to specify which chemicals recalled physical and embloan Chemicals and the property in the ingredients methyl chloride. Other chemicals including those there are some prime suspensional files and the property in the ingredients methyl chloride. Other chemicals including those the meaning of the property in the ingredients methyl chloride. Other chemicals including the physical and embloan Chemicals inc. It is impossible to specify which are continued to the meaning of the property of the meaning of the

The second secon

acron fined

rrected but employees vow to file laws Firm says violations being co

By Douglas Starr But employees say they will sue: prepared for the Occupational Safety Post state reporter We had, a pow-wow, said Ed and Health Administration, the doctors at Cincinnati Milacron workers suffering attacks of forget. Inc. in Reading says three chemicals fulness; anger and impotence as a the symptoms of dimethyltin-dichlomay have caused nervous disorders fulness; anger and impotence as a the symptoms of dimethyltin-dichlomay have caused nervous disorders. Fesult of handling certain chemicals ride related poisoning and the plant, at the plant, "We're definitely contained that employees working with the point of the plant of the plant." We're definitely contained that employees working with the sulting in a \$6380 fine.

AT THE SAME time, researchers that employees working with the investigation protective clothing; be educated said the Milacron case may prove a about the effects of the chemicals and receive medical checkups both the contained that the field of occupational and receive medical checkups both the contained that the plant of the contained that the field of occupational and receive medical checkups both the contained that the protective statement of the contained that the plant of the p

recognize as pain and suffering; he f workers from the hazard.

Junder Ohio law, workers may not you a company that carries Workers. The things we observed are occur. In AN ATTACHED report. Tuespolyces.

Milacron carries such insurance. The MOST that disabled with point of the Johns Hopkins University physical claim who headed the team that company for 15 serious health and examined the men. The future, he said, doctors week for life plus medical examined the men. The future, he said, doctors several weeks. Violations ranged penses, according to Neil Webner, and plant supervisors will be able to from a lack of railings around several weeks. Sompensation in Ohio Bureau of Worker's Compensation. The things we observed with point in the future, he said, doctors several weeks. Violations ranged watch for such behavior—such as all stairwells and floor openings to short temper, confusion and memory unevenly placed steps to not instructively problems—know it may be a sign of ing employees to wear protective chemical poisoning, and remove the clothing while handling toxic chemical recognize as pain and suffering, he workers from the hazard.

Among the recommendations Previously, OSHA officials had

tor for the firm, more than half the salety-related ones have been corrected.

"All other violations will be corrected by 1975," he said.

"But employees remained bitter than half the said.

"But employees remained bitter that all though studies on "one or two" other time, it is impossible to say how long neurological reports are ready. The new said. "It's what you're doing now, one said. "It's what you're doing now, one said. "It's what you'did then." It is impossible to say how long neurological reports are ready. The REPORTS stem from complaints last spring among workers who suffered from nervous disorders while working in the firm's Building locals, according to the report:

THE REPORTS stem from complaints last spring among workers who suffered from nervous disorders or any combination of three chemicals actually, caused the dimethyltin-dichloride. Examining dichloride, or methyl chloride.

The problem could be one for further study to determine with the plastics additive dimethyltin-dichloride. Examining dichloride, or methyl chloride.

The exact chemical will be differed in would do, Reading said, "We heavy" concentrations of the subjustment to the stance, or the chemicals used to closed the stance or the chemicals used to closed the stance or the chemicals used to close

adequate medical surveillance. quite marked in rage attacks and inspectors found no hygiene vi

fined Milacron \$300 for falling to pro-said. The memory loss could be more modern than Building 27, vide adequate medical surveillance. quite marked : rage attacks and in inspectors found no hygiene w

Notice is hereby givene in Thursday, November of Asternior to Oring Ilve, blg-secordance with Is. Program, and Mary of the Control of the Co

Probing Spectrum

BY WAYNE BUCKHOUT Business Reporter

The Cincinnati office of the Occupational Safety and Health Administration (OSHA) is conducting a broad-based investigation of health and safety procedures at the Cincinnati Milacron Chemicals Inc. Reading plant.

The investigation, which began with an! surprise inspection at the plant Monday, is in response to a nine-point complaint listing possible violations of heath and safety regulations throughout the plant.

The complaint was filed by Edward Blankenship, a Milacron chemical worker on disability leave from the company since March, 1978. It charges Milacron with, among other things, failing to post a copy of OSHA. regulations that explain how employees may report work-place hazards. It also charges improper exposure to solvents and other chemicals in several buildings where chemicals are produced.

with OSHA in March that triggered the agency's investigation into reports of emotional and physical illness among workers making dimethyltin dichloride. Dimethyltin dichloride is a chemical further reacted to make an additive for plastics.

That investigation culminated in an OSHA finding of a serious violation of federal safety statutes reported in The Enquirer October 25. Cincinnati Milacron agreed to pay a \$300 fine and take corrective measures to monitor more closely the health of employees making the chemical.

The Enquirer also reported the impact on

Milacron employees and their families caused by exposure to the dimethyltin-dichloride process in Building 27. Many men who worked in the building reported an inability to concentrate, loss of memory; extreme irritability, "! violent behavior and impotence. Williams

These symptoms are similar to those scientists say are caused by extreme exposure BLANKENSHIP ALSO filed a complaint dimethyltin-dichloride production process.

THE CURRENT investigation, however, does not focus directly on dimethyltin dichlo- it Meanwhile, Cincinnati Milacron Chemi-ride, but includes the entire range of industricals President Raiph Binhs said in a letter to trial chemicals Milacron makes at Reading.

OSHA industrial hygienist Ronald Young confirmed that he and three other inspectors walked through the Reading plant Monday, looking at buildings other than those housing. dimethyltin-dichloride production units. He said the required OSHA information posters

Juries and Illnesses among all workers at the plant since 1971. All companies have been required by law since 1971 to keep track of injurles and illnesses and turn the record over to OSHA at the agency's request, he sald.

"Information will be studied along with other findings from inspections, he said.;;

'Two OSHA inspectors returned Tuesday and inspected buildings and interviewed emto methyl chloride, an ingredient in the ployees. Young said more inspections are posed to methyl chloride at Building 27 in two aint dimethyltin-dichloride production process. likely before the investigation is completed incidents in 1971 and 1972. likely before the investigation is completed ... incidents in 1911 and 1912.

and findings are determined!

the plant's 300 employees that Milacron has hired an industrial-safety consultant to inspect the blant for any safety or health violations and report them to the company.

BINNS! LETTER also included th company's response to Enquirer reports based on interviews with company executives October 25, that the company had no knowls edge of any Illnesses amng employees: linked to methyl-chloride exposure prior to line! dents in December, 1977, and January, 1978.

zeroed in on recent incidents, and (company executives') replies were limited to those incldents."

Binns said, "The company is on record,

many places that some of its employees Were exposed to methyl chloride in 1971-72:35

Binns said five employees were overes posed to methyl chloride at Building 27 in two

Norkers file million suit against Milacron

By Douglas Starr

the firm for a total of \$4 million. The. employees' wives also sued for a ... The workers also allege that detotal of \$600,000 for losing "the spite praise for cooperation from the services and consortium of their hus-

"You can rest assured this case. will wind up in the state supreme court," said Jerald D. Harris, the attorney representing the workers. He filed the suit today in Hamilton County Common Pleas Court.

The suit involves a much-publicized case last fall of several men who became ill at the chemical plant in this litigation," Harris said. "It is in Oakley. Exposed to chemicalfumes, the workers suffered fits ofrage, forgetfulness, loss of sex drive and possible nerve damage. Several still cannot hold jobs.

investigators fined the firm a total of cron staff. The workers also filed \$6680 for 15 "serious" health and against 26 "John Doe" firms, whose safety violations and for failing to identities are unknown but which examine the workers.

The workers charge that Milacron knew about the hazards of Milacron officials could not be dimethyltin aichloride and related reached for comment. the straight in the the south of the first in the

a chemicals but failed to inform them. Post staff reporter

Such a failure, they charge, "was Eight workers who say they were intentional, malicious and in willful sickened by fumes at Cincinnati and wanton disregard" for the em-

> The workers also allege that defederal government, the company actually hampered the investigation of the health problems.

A key issue that will emerge in the case is the validity of Ohio's Workmen's Compensation law. Under that law, workers may not sue a firm that carries workmen's compensation insurance. Milacron is such a firm. 🕾

"That will be a major contention our opinion that it (the law) doesn't apply because of the intentional nature of this particular action."

Asking for a jury trial, the work-After these complaints, federal ers sued seven members of the Mila-... may have sold the hazardous chemiand cals to Milacron.

Milacron Denies Early Knowledge Of Employee Ills

BY BENL KAUFMAN Enquirer Reporter

Cincinnati Milacron Chemicals Inc., where executives insist safety comes first, did not notice some bizarre emotional and physical problems of employees until Occupational Safety & Health Administration (OSHA) in 1 spectors arrived; company officials said, Wednesday.

"I think that we would have to say that." said Dr. Robert, C. Witman, plant technical director. "I. was not aware of any symptoms nor was Joe." He referred to Joseph A. Mazzel, anahager of the plant in Reading and the former safety officer, sight was a few more

Even when the symptoms were identified and questions of plant conditions were raised. Milacron left it to OSHA to pay for physicals for 18 of the men who worked on a suspect

Withan added that the symptoms were the kind which men hid from each other and rarely discussed: uncontrolled rage, impotence and marital problems. (1) alles

OSHA cited Milacron' Monday, saying it had insufficient medical surveillance at the Reading plant. If the High a Cliffy

Today, however, Mazzel sald. "We are taking all of the corrective actions we know how.

"WE WANT all of our people back to work with us. Our objective is to have a safe working environment."

As for co-operating with OSHA, "We went" the extra distance." Mazzei added, a sention the inside

Outage stopped pumps, Page B-1.

ment confirmed by OSHA officials. 12 #

'. Still, four years ago, Milacron did not increase its medical surveillance when a rival had trouble while producing dimethyltin dichloride, the same chemical the 18 Milacron & men worked with, District the Affilian

Given what they could learn then, Mila-12 cron officials judged their process was so different that there would be no similar probate lems, Mazzel and Witman sald.

"We didn't send people to the doctor." Witman conceded. "As far as we were concerned at the time, we didn't have any prob-

lems "it " angle to the group of the original to be within an it who developed the original to be a second to b chemistry for Milacron's dimethyltin dichloride process, and Mazzel have been associated with the chemical's production from the start.

5.5. EMPLOYEES INTERVIEWED by The Enquirer in recent weeks attribute their impotence, and broken-marriages, uncontrolled rages, depression and other problems to working on Milacron's dimethyllin dichloride production line during the past eight years.

Three men-Ed Blankenshin, Herb Burns. and Perry Wood-are too ill or unwilling or unable to work again where dimethyltin dichloride, an intermediate compound in the

production of Milacron's TM-181, plastics; additive, is made, which is the der to have

Mazzel said he is seeking appropriate jobs clence. for the trio, including a requested transfer for . Blankenship whose complaint in March

is a prime suspect because many of the symp- supervisors. toms are typical of reported methyl chloride intoxication elsewhere.

UNCERTAINTIES ASIDE, events moved quickly this week after months of research: "

Monday, OSHA issued the citation: Tuesday, the company said it would not contest the citation or \$300 fine; Wednesday, Milacron executives explained what has transpired since they began producing dimethyltin dichloride.

They also responded to worker allegations the company disregarded employee's fears and questions about health and safety.

Witman and Mazzei said:

- Medical surveillance was inadequate, given perfect hindsight. 在特色的表示。
- OSHA's requirements for improved medical surveillance were anticipated by tests instituted in May and more will be standard operating procedures within a month, PARISE
- No worker complaints were ignored. Ventilation was improved on various.

occasions in Building 27, the pilot plant which? workers call the "Hell hole."

at least adequate, according to federal regula-

higher pay or preferred shift to buy his si-医双角 网络海绵线

No one was told to "hit the gate" because he complained about plant safety conditions. Men were told to accept shift One chemical involved, methyl chloride, protations or leave, according to their direct

> · Absenteelsin was the same for Building 27 regardless of whether dimethyltin dichloride was being made there or the men, were; producing other chemicals. The rate was not "horrendous," as workers charged.没能

> % . Workers received medical attention after joining the firm if they were absent because of sickness. After a year of close checks before men were allowed back from being ill, no symptoms which could have been lobrelated were reported by company of private physicians

MILACRON'IS waiting for final medical reports on the 18 men from the OSHA-hired, physicians before it decides whether to notify possibly 50 men who worked with dimethyltindichloride since 1970, Mazzel and Witmart-sald Mazzel and Witman sald Blankenship,

who was the most outspoken of the menclaiming sickness from working at Milacron. Chemical, is telling two, different storles when he says he was made ill years ago. Ac-; cording to medical records cited by the Milacron officials, Blankenship told a physician two years ago he was well and that nothing at work made him ill.

Milacron Well Aware Of Chemical Exposure, Worker's Widow Says

Cincinnati Milacron Chemicals Inc. knew about the anger, depression and impotence among men making dimethyltin dichloride. at least six years ago, an employee's widow said Monday.

Josephine Cloe said Milacron officials knowingly exposed the workers to chemicals capable of producing emotional and physical witmark the plant technical director, said. I

She dismissed as "nonsense" the statement of two Milacron executives that the wof men to "hide" such emotional and physical. firm was ignorant of the production-line : emotional and physical problems until Occupational Safety & Health Administration zel nodded agreement. (OSHA) officials alerted them last March 21.

band, Del, and others were affected by the men before March, Ronald J. Young, the chemicals involved in the dimethyltin dichlo-

Milacron knew it-and dld nothing until. OSHA intervened after one of Del's coworkers complained, she continued. Complained.

MRS. CLOE bases her statements on: tion claim form. On it, Kenneth Ziegel, then Mused to comment on Mrs. Cloe's evidence or and still Milacron Chemicals personnel man-# ager, said he knew Cloe and other employees suffered methyl chloride intoxication on the Mazzei "emphatically deny making a state"

(Methyl chloride is an ingredient in dimethyltin dichloride and a prime suspect in ? OSHA's investigation of the reported illnesses. The other is organic tin involved in the process.)

... Milacron's -acknowledgement-following an OSHA citation and line-of insufficient medical surveillance of dimethyltin di- ... chloride workers during the eight years it has made the plastic-related compound at its West Street plant in Reading Work to be a few and the second of the second of

exposure to the dimethyltin dichloride process ruined their sex lives and sometimes their

TWO WEEKS ago, when OSHA cited the firm, company representatives Dr. Robert C. Witman and Joseph A. Mazzel were asked by two Enquirer reporters whether Milacron had. been ignorant of the men's symptoms before until OSHA began investigating in March. :

"I think that we would have to say that," was not aware of any symptoms nor was Joe ?? Complicating the situation was the tendency problems, Witman added.

... Milacron Chemicals Vice President Maz-

Mrs. Cloe, Cold Spring, Ky., said her hus- had not seen the symptoms described by the OSHA industrial hygienist who has overseen the Milacron investigtion since March, confirmed Monday night.

And those are the kind of symptoms. that are obvious," Young added.

". "Monday, Ziegel referred questions to • Del Cloe's 1972 Workman's Compensa- company spokesman John-Reading, who restatements. The statements of the statement of the statements of t

Reading would say only Witman and ment indicating that the company did notknow about methyl chloride exposures that occurred some years before the alleged dime :thyltin dichloride exposures which were the, subject of the interview with Enquirer reporters.......The company will issue a detailed.

. When pressed about the symptoms, not ! the exposure to the chemicals. Reading had nothing further to say.

Reading would not explain why Milacron' had said nothing about the interview until pensation form to OSHA and The Enquirer tions. State after reading The Enquirer reports of Mila-

tion against Milacron could be upgraded from views over the years. a "serious" to a "willful" violation if new evi- Cloe, two years short of retirement, "diddence warrants the more serious charge and penalties. They are waiting for Cloe's medical widow said. "He worked 12 hours a day, seven records before commenting further.

"I know I can't do anything for Del," Mrs. Cloe said, "but if any of this does anything to :;

Milacron workers and former employees." Interviewed by The Enquirer said the dimethyltin dichloride process "scrambled" their; minds and left there angry and depressed." "That's just how Dei was," she said. "He had exposure to methyl chloride. His mind

Sphysician Donald Frickman, 🐃 🛴

On the Workman's Compensation form, Frickingn described Cloe's symptoms as "silly," behavior and mental confusion; memory Im-

Diagnosis: "methyl chloride intoxica-

PERSONNEL MANAGER Ziegel answered questions in the company section of the same and INVOLVED IN any re-evaluation of the

- "Have other employees, having the same": exposure as claimant (Cloe), been similarly tion may exist where the evidence shows:

HIS PERSONALITY changed for the worse, Cloe's widow and daughter agreed. He had been a "patient, quiet man", who "didn't speak unkindly of other people."

changed that, Mrs. Cloe said. "Bitchy is the way I would describe it. He wasn't violent or anything. Just bitchy all the time. And that's of

. Mrs. Cloe said she wishes today she had requested an autopsy when Cloe's death at

Other men and their wives complain: 000, according to OSHA.

mks. Clob prought the workman's Com- "asked about Mrs. Cloe's evidence and allega-

EMPLOYEES AND former employees cron's saying it was ignorant of the worker's "interviewed by The Enquirer said the men; raised the health and safety questions fruit-Monday, OSHA officials said their cita- illessly in safety meetings and personal inter-

> n't take his problems home with him," his days a week. He was exhausted.".

Once OSHA started investigating, Milacron-began improving medical procedures, help those other men, then that's worth -according to Mazzet-All of OSHA's recommendations, listed on the citation, are to be implemented, he added.:;, 🤝 📆

Mazzei, sald it is inconceivable Milacron supervisors and executives, would have been deat'to safety complaints. Milacron policy puts safety before quality or quantity of production; Mazzei stressed. (25-25)

Improvements were made to building 'in June, 1972,'Cloe went to Newport wentllation, in part, because of worker requests, he added.

#ChThe suspect production line was closed. March-16, according to Milacron, four days before the complaining employee went to OSHA, and it has not reopened. That and the statute of limitations has prevented OSHA from doing more, agency officials said, 17

scharge against Milacron is the OSHA Field Operations Manual which says a willful viola-

- 7.7. . The employer committed an "inten-• "Is it your opinion that claimant con- Fivertent violation of the Act and the employer. tracted this occupational disease in your als conscious of the fact that what he is doing constitutes a violation."
 - Even though the "employer was not consciously violating the Act, he was aware. that a hazardous condition existed and made: no reasonable effort to eliminate the condi-

BAD PURPOSE" or "evil Intent" need not be proved, according to the manual. "It is sufficient that the act was deliberate, volun-Working on the new chemical process of tary or intentional as distinguished from those which were inadvertent, accidental or fordinary negligence."

A The maximum penalty for a serious violation is \$1000, and Milacron was fined the: minimum of \$300 because of its record with · OSHA and its willingness to co-operate with. age 63 in May, 1976, was attributed to heart, the investigation and to correct the problems, trouble.

The maximum for a willful violation is \$10.

BY BENIL KAUFMAN (%) Enquirer Reporter

Marital, health and safety problems bedevil workers at Cincinnati Milacron Chemicals Inc., the U.S. Occupational Safety & Health 'Administration (OSHA) reported Tuesday.' -

The disclosures came in two separate 7年多少年6日 4

. The report on 22 men examined by a team of three physicians and a neuropsychologist.

· Citations issued against Milacron for alleged health and safety violations found at its Reading facility during a major inspection; last month.

Family problems arise from workers being heavily exposed during the production? of dimethyltin dichloride last winter, according to an OSHA report on the workers in

Building 27.

THE REPORT documented the workers': impotence and loss of interest in sex, their: rages and depressions, and other emotional and physical problems. F. Washing Conf. 178.

Originally, 18 men were examined, but four more requested the extensive testing and they were included in the report, OSHA officials explained.

. I The new citations indicate health and safety problems remain at Milacron Chemi-IN THE PARK THE PARK AND THE

The report and the citations won applause from skeptic Ed Blankenship, whose complaints against Milacron provoked the two OSHA inspections of the Reading works this year.

"OSHA did a wonderful job with what they had to work with," he said. "I wish workers in other industries would have more, confidence in OSHA.

... Blankenship, away from his Milacron job since March because of emotional and physical problems attributed to overdoses of dimethyltin dichloride, originally was so suspicious of Milacron and OSHA he came to The Enquirer with his complaints.

ONLY ONE of the citations delivered Tuesday to Milacron involves dimethyltin dichloride production: an emergency eye wash fountain was inadequate.

Milacron spokesman John Reading sald all of the hygiene problems cited Tuesday and

at least half of the safety problems have been 'corrected; others will be completed "on schedule" as required by OSHA.

Milacron will have no official comment on the citations and fines until it has reviewed the citations, he added.

The company has 15 working days to challenge the findings or penalties. It did not challenge the citation or fine based on the first inspection this year.

Most firms allow citations and fines to go unchallenged, Bill Murphy, OSHA safety inspection supervisor, said.

Ronald J. Young, acting OSHA area director and industrial hygienist, characterized Mllacron's attitude this way:

"They have really co-operated . . . Not that they really had any choice in the matter."

MILACRON COULD have made it more difficult for OSHA inspectors, led by Young, to get the desired data. The second section of

This had something to do with OSHA fining Milacron \$6380 Tuesday, instead of the maximum allowed on the 15 serious violations \$15,000.

"It's hard to hit somebody with the maximum penalty when they're in there fixing it before you leave," Young added. . .

Murphy said the problems alleged in the new citations could be found in any major factory; insufficient safety railings, unguarded-floor openings, inadequate attention to safety gear, etc.

Acknowledging the public's tendency to minimize the problems because of the apparently low fines, Young said the initial penalty, eventif uncontested, is the least of Milacron's problems:

The company is spending money to improve medical surveillance of dimethyltin dichloride workers and to correct other health. and safety problems.

'IF MILACRON does not meet OSHA's requirements, the firm may be fined much more for failure to comply or repeated offenses, he said.

... These requirements included regular physicals of dimethyltin dichloride workers and observance of behavioral changes among those men at work.

: Moreover, Milacron is not being fined be-

Additional Fines, Citation; Issued Against Milacron

cause the workers became sick on the job. The fines do not presume Milacron maimed the workers. That is an important legal point? to OSHA and Milacron.

Because of a statute of limitations and other problems, that charge by workers could ! not be proved in a way that would survive a court challenge, OSHA officials have said re-The street of the street of the 'neatedly. : ::

One of those problems was that the first complaint to OSHA about conditions in Building 27 came after the men were exposed 🕏 heavily during what Milacron called "upsets"; in the dimethyltin dichloride production last winter, For that reason, OSHA could not take air samples during the critical period. That is the kind of evidence the courts want.

i. Moreover, dimethyltin dichloride production in Building 27 stopped days before Blankenship first complained to OSHA. Consequently, no air samples were taken there.

Air samples taken in Building 12, where 4 dimethyltin dichloride production continues, show the operation to be within OSHA standards, Young said.

OSHA CITED and fined Milacron for problems it could substantiate: men were sick on the job and the company had not suffi-3 clently watched their health. A war of the configuration

The OSHA report released Tuesday summarized the findings of a neurologist, a psy-chiatrist, an occupational medicine specialist and a neuropsychologist hired by OSHA to examine the complaining dimethyltin dichloride workers from Building 27.

It supports OSHA suspicions and workers' claims that working with dime: hyltin dichloride made the men sick but the report by the four-man team says the chemical(s) at fault cannot be specified. The constitution gradient

The report points to at least three substances which could have caused the problems reported:

Dimethyltin dichloride, ingredient methyl chloride and byproduct trimethyltin chloride which might be produced, "particularly under upset process conditions."

The team also adds to the men's hopes that the mental and physical problems ease it : Finklea was hired by Industrial Hygiene. and its ingredients:

.; "From our limited observations, there ap-

pears to be some improvement after the employee is withdrawn from the process

NONE OF the men who worked with dimethyltin dichloride-but who left Milacron before OSHA ran its first inspection last. March-has been involved in the medical

examinations.
OSHA's Young said they should gel copies of the new report, and take it to a physician familiar with occupational medicine. This could be done on referral from family physicians, he added.

Milacron spokesman Reading said the company has not decided yet whether to contact those former workers.

That decision awaits advice of Milacron's consultants and study of the OSHA team's

to a complaint from workers and former Milacron employees interviewed by Tibe En= quirer, that they were not briefed adequately? to the hazards of dealing with dimethyltin dichloride. It is in tune with OSHA's expectations of improved medical surveillance by. Milacron: will be districted to the control of the

"Employees must be properly educated as to the potential toxic effects of materials used. in the dimethyltin dichloride process. wholes.

THE TEAM also called for annual physi-cals and careful evaluations of workers. mental states in any acceptable medical-pro-

Milacron began improving its medical surveillance after OSHA inspected the Reading works in March but before it was cited." formally for insufficient medical surveillance · VIII Talah bermian

Tuesday, Dr. John Finklea, a consultant, retained by Milacron after OSHA began inspecting the dimethyltin dichloride production and workers, was at the chemicals. facility "interpreting" the OSHA study to the. employees, company spokesman Reading said.

Finklea formerly headed the U.S. National Institute of Occupational Safety and, Health. Today, he is a professor of public. i health at the University of Alabama.

with time away from dimethy!tin dichloride ... & Professional Services Group of American-Optical Corp. once that firm was brought in. by Milacron, Reading said.

Social Security | Disability Denial Notice

From: DEPARTMENT OF HEALTH EDUCATION AND WELFARE SOCIAL SECURITY ADMINISTRATION

Date:

APR. 22, 1980

EDWARD E BLANKENSHIP 8771 DALY RD CINCINNATI CH 45231 Claim Number:

268-28-2040 A

WE HAVE DETERMINED THAT YOU ARE NOT ENTITLED TO DISABILITY BENEFITS. IN REACHING THIS DECISION WE CONSIDERED HOW MUCH YOUR CONDITION HAS AFFECTED YOUR ABILITY TO WORK. AFTER CAREFULLY STUDYING YOUR RECORDS, INCLUDING THE MEDICAL EVIDENCE AND YOUR STATEMENTS, AND CONSIDERING YOUR AGE, EDUCATION, TRAINING, AND EXPERIENCE, IT HAS BEEN DETERMINED THAT YOUR CONDITION IS NOT DISABLING WITHIN THE MEANING OF THE LAW. IF YOUR CONDITION SHOULD GET WORSE AND PREVENT YOU FROM DOING ANY SUBSTANTIAL GAINFUL WORK, YOU SHOULD GET IN TOUCH WITH ANY SOCIAL SECURITY OFFICE ABOUT FILING ANOTHER DISABILITY APPLICATION.

YOUR SOCIAL SECURITY RECORD AT THE TIME YOU FILED YOUR APPLICATION SHOWS THAT YOU MEET THE EARNINGS REQUIREMENT FOR DISABILITY PURPOSES UNTIL 12/31/83. ANY ADDITIONAL EARNINGS WHICH MAY BE CREDITED TO YOUR RECORD AFTER THE TIME YOU APPLIED MAY, OF COURSE, EXTENDITIES DATE. (AN EXPLANATION OF THE DISABILITY REQUIREMENT AND THE EARNINGS REQUIREMENT IS GIVEN ON THE BACK OF THIS NOTICE.)

THE DECISION ON YOUR CLAIM WAS MADE BY THE SCCIAL SECURITY ADMINISTRATION ON THE BASIS OF A DISABILITY DETERMINATION BY AN AGENCY OF THE STATE IN WHICH YOU LIVE. PHYSICIANS AND OTHER TRAINED DISABILITY EVALUATION PERSONNEL IN THE STATE AGENCY PARTICIPATE IN MAKING SUCH DETERMINATIONS.

ACCORDING TO YOUR PRESENT EARNINGS RECORD AND THE DATE OF BIFTH WE ESTABLISHED YOU HAVE ENCUGH CREDIT FOR WORK UNDER SOCIAL SECURITY TO QUALIFY YOU FOR RETIREMENT BENEFITS AT AGE 62.

SEE NEXT PAGE

If you believe that this determination is not correct, you may request that your case be re-examined. If you want this reconsideration, you must request it not later than 60 days from the date you receive this notice. You may make your request through any social security office. If you have additional evidence, submit it with your request. Please read the enclosed leaflet for a full explanation of your right to question the determination made on your claim.

If you do not request reconsideration of your case within the prescribed time period, you still have the right to file another application at any time.

Important: See other side for information about your claim. ▶

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Source Of Maried Chemicas' Leakage Sought Along Mill Creek By Ohio El

BY BEN L. KAUFMAN Enquirer Reporter

READING-The Ohio Environmental Protection Agency (OEPA) is hunting the source of poisonous buried chemicals oozing into the Mill Creek.

Bill Barrow, hazardous waste scientist for OEPA, Wednesday said he suspects the "toxic" industrial wastes are

buried nearby.

He plans to take soil samples from creekside land occupied by Pristine Inc., a waste-handling firm; Cincinnati Drum Service Inc., which recycles metal drums, and Carstab Corp., the former Cincinnati Milacron Chemicals Inc.

He hopes this will locate the problem; solving it could be much more de-

manding.

"It's kind of obvious there's something buried in there somewhere,"

Barrow said.

"My opinion is that it's probably Milacron. Still, to be fair and thorough, we ought to take corings all along there."

Barrow said chemicals leaching into the Mill Creek do not appear to be a

clear and present health hazard.

THE DRAINAGE clearly is coming from the 20-foot creek banks and is not part of the surface rainwater runoff Pristine has agreed to control, Barrow said. That is why he assumes buried chemicals are involved.

He also has names of Milacron employees who reportedly helped bury

chemical wastes.

If Barrow is right, USEPA officials want a piece of the action, too, according to Dale Bryson, deputy director of the Region V enforcement division in Chicago.

Waste burial by an industry on its property before last month did not violate federal laws because there were

none, Bryson said, but if an old dump is polluting the water now, "We'll move

New federal laws allow enforcement action where USEPA can prove an "imminent and substantial" danger to public health or the environment, he explained.

USEPA is prepared to force a company to do whatever is necessary to end

the hazard, Bryson added.

COMPLICATING ALL of this is the possibility wastes were buried by previous landowners.

Milacron sold its chemical works recently to Thiokol Corp. of Newtown, Pa. International Minerals & Chemicals Corp. hasn't been active on the Pristine/ Cincinnati Drum site for years.

OEPA's Barrow, a member of the Dayton-based land pollution control team, is convinced after an inspection Friday that the oozing chemicals are

'The "smell" warns Barrow the wastes violate federal clean water laws even

without a laboratory analysis.

Carstab officials "agreed to let us do "Barrow said of the soil tests, so OEPA will not require a search warrant to go on the former Milacron property.

Pristine Board Chairman Dr. Riley Kinman said he has not heard from Barrow, but promised, "We will co-oper-

Oren Long, president of Cincinnati Drum, could not be reached for comment. Long is "out of town," according to accountant Dave Wheeler, who is "not sure" when he will return or whether OEPA will be allowed to drill without a search warrant.

Ralph Binns, veteran Milacron executive who remains as president of Carstab, was not available for comment Wednesday. An aide said Binns was busy with visiting Thiokol officials.

IN COLUMBUS, Barrow's OEPA colleague Dan Redman said Ohio laws did not regulate this kind of industrial dumping before 1976, so long as it did not seep into ground or surface water.

New state law brought active onsite disposal under increasingly stringent state control, said Redman, assistant chief of OEPA's office of land pollution

But no reports are required if the onsite dumps were not used after 1976, he added.

Should anyone prove chemicals leaching into the creek come from buried wastes, OPEA and USEPA could order the landowner to control the seep-

This could end up in court, USEPA's Bryson said: The landowner might deny responsibility for contemporary problems caused by wastes buried according to formerly valid law or in the absence of regulations.

The problem may be older than offi-

cial concern.

Pristine's Kinman said he tried to bring the seepage to OEPA attention before his firm was founded. "It's been there for years and 'years and years," Kinman, a University of Cincinnati professor of civil and environmental engineering, said.

Friday, Barrow took samples along the creek bank. He plans to have them

and soil samples analyzed.

"Then we'll try to match them up. It's the only way we can prove where they're from."

IN ADDITION to getting permission or warrants to make the soil tests, Barrow needs OEPA approval for at least \$2,000 in analytical work by a private

All this could take two months, he

Working with Barrow on the soil sampling will be OEPA geologists and members of the agency's Emergency Response team.

A former Milacron employee told Barrow about the buried wastes. He also identified men he says helped bury chemicals on the Milacron property.

Barrow said he found leachate smelling strongly of sulfur along the creek embankment last week. That could in-

volve all three suspect properties.
Milacron bought Carlisle Chemica Works in 1948 and built the present Wes

Street plant in 1980.

This is the same Milacron facility where employee complaints in 1973 led to federal fines for 15 "cerious" healti and safety violations.

Founded nearby in 1940, Carlisle' products often included sulfur com pounds. This continued after becoming

a Milacron subsidiary.

Nearby Pristine, founded in 1974, 1 on Big Four & Smalley Rds. propert leased from neighboring Cincinnat Drum. The land on which they operat belonged to International Minerals & Chemicals Corp.

The International Minerals facility was built in 1943. Sulfuric acid and ferti lizers were made there in the postwa era. It was closed in 1989, according to at

Enquirer story that year.

Hazardous Wastes A Grave Threat, Chemist Warns

BY SUE MacDONALD
Enquirer Hamilton Bureau

HAMILTON—A University of Cincinnati chemist Thursday described the Chem-Dyne plant in Hamilton as the "best worst example of how not to dispose of hazardous wastes" and compared it to New York's Love Canal because of its potential human health problems.

Speaking at a hazardous waste seminar at the Miami University Hamilton campus, chemistry professor Harry Mark said the types of chemicals that were brought into the Chem-Dyne plant and are now burled near the plant may pose a threat as serious as the Love Canal in Niagara Falls, N.Y., where residents have been evacuated from houses built on a former chemical landfill.

"The contention that you have no Love Canal in Ohio is ridiculous," Mark said. "You have one right here in your backyard. I think it is fitting that we are sitting here in Hamilton talking about hazardous wastes," he said in his opening remarks.

MARKS, Willo headed a court-ordered team to inventory wastes at Chem-Dyne, claimed former operators of the firm buried chemicals near a city park in the North end, chemicals that "slowly but surely will seep" out of the ground if the containers in which they are stored break down

Should that happen, Marks said the only solution would be to dig up the chemicals to a depth of 60 feet—a solution that probably would be economically unfeetble.

be economically unfeasible.

Marks and the four panelists who participated in the seminar agreed that the costs of dealing with the tons of hazardous wastes created by Ohio manufacturers each year will be staggering.

o Philip Watson, president of a progressive liquid treatment company in Kenia, said the technology and research that deal with landfilling, storing, burning and treating hazardeus wastes is in an "embryonic stage" that will be triggered by recent guidolines handed down as part of implementing the Congresssional Resource Conservation and Recovery Act.

The experience at Chem-Dyne "really woite me up and shook me up" to the reriousness of the disposal of hazardons wastes, he told the audience of about 20 percons.

o John Barker, chief of environmental engineering at Armoo Inc. in Middletown, said his firm began a year ago to inventory its vastes in anticipation of the recently distributed guidelines from the U.S. Environmental Protection

Agency about the recovery act.

Because the guidelines give Ohio industries only 90 days to register with the government the types of wastes they generate, Barker predicted there will be "an awful lot of screaming, rendering of cloth and tearing of hair by industries that have not begun this inventory."

• Paula Cotter, staff member of the Ohio EPA hazardous materials section, said Ohio soon must face the problem of deciding where to store hazardous wastes because "rural areas are strongly opposed to taking cities' wastes."

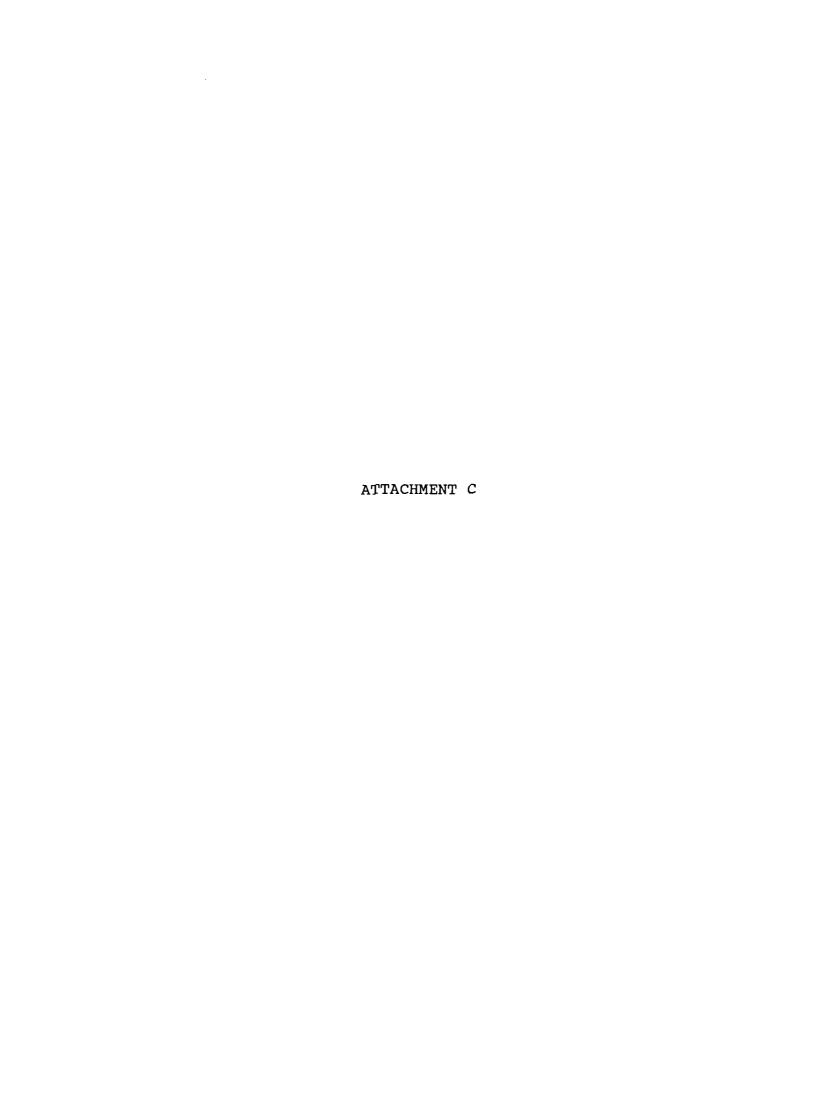
She agreed with Watson's contention that 70% of the liquid wastes now generated in Ohio can be pre-treated safely with present technol-

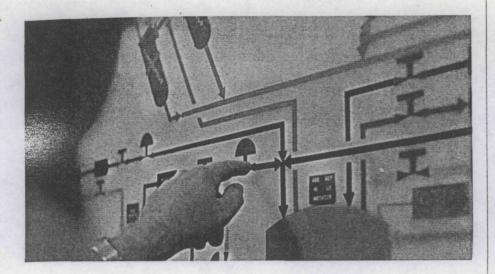
Earlier said federal officials at a recent Washington conference estimated that the cost of dealing with the nationwide problem of nazardous waste disposal may equal the amount of money already spent by air and water pollution measures in the lest decads.

CHEMICAL CATE COMPANY LAMD USED FOR COMMUNITY RECREATION COLUMBIA AVE

POISO OUS WASTES: Poisonous industrial wastes are burled near Ref. ling recreation areas, according to a map prepared for state chicials, the map is duplicated above. The wastes may be stored under property of Carstab Corp., the former Cincinnati Milacron Chemical Inc.

Enquirer graph





Above: Schematic flow-chart display panel in our Control Center enables plant personnel to monitor process conditions and step-by-step progress of complex chemical reactions.

Left: Control Center houses a mini-computer and monitoring equipment for advanced computer process control of multistep chemical reactions. This capability insures quality and consistency of our specialty chemical products and helps improve productivity.

Carstab Corporation is a wholly-owned subsidiary of Thiokol Corporation, an international high-technology company whose headquarters are located in Newtown, Pennsylvania. Specialty chemicals and their application to customer needs are a significant part of Thiokol's worldwide business. In addition to Carstab's line of performance chemicals which are described in this booklet, Thiokol produces liquid polysulfide polymers, pre-mixed additive concentrates. sodium borohydride, industrial biocides for plastics, dry film photoresists for printed circuit board production, UV-curable screen inks and clear coats, rubber chemicals, fine chemicals, lubricants and greases, and oil field proprietary chemicals. Thiokol is also a leading producer of solid rocket motors for defense and space applications.

Carstab Corporation, West Street, Cincinnati, Ohio 45215; Telephone: (513) 733-2100. In Canada, contact Thiokol Canada, Ltd., Horner Avenue, Toronto, Canada M8ZAX5; Telephone: (416) 259-1141. In Europe, contact Carstab Corporation, B3680, Maaseik, Belgium; Telex: 846-39915.

PVC Heat Stabilizers

PVC compounds designed for processing by extrusion, blow molding or injection molding always require a heat stabilizer to inhibit loss of physical properties and appearance of the plastic caused by the high temperature and shear during processing. In both pigmented and clear rigid PVC applications, such as pipe and fittings, siding and window profiles, bottles, film and sheet, Carstab's organotin stabilizers have the major market share in the U.S.A. and Canada.

Carstab pioneered the development of high-performance tin mercaptides with the introduction of the first methyltin stabilizer, ADVASTAB® TM-181, in 1971. Since then, this product and our more recently developed heat stabilizers have become the most widely accepted products used in the rigid PVC stabilizer market.

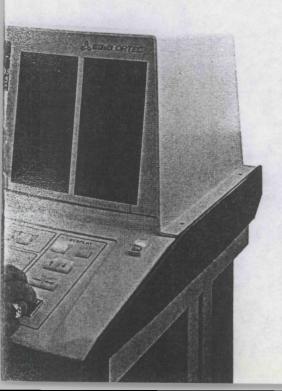
Another first for Carstab occurred in 1977 with the introduction of a unique lubricating





Above: Our modern specialty chemical plant is equipped for both batch and continuous operations with strict attention directed to safety of our plant personnel and environmental control.

Below: Computerized X-ray fluorescense spectrophotometer is used for rapid, accurate analyses of the elemental content of our chemical products.



stabilizer. This multi-functional product incorporates both heat stabilizer and lubricant functionality facilitating processing and simplifying materials handling.

Organotin Mercaptides

ADVASTAB® tin stabilizers offer rigid PVC processors many advantages, including lower stabilization costs, increased production rates and excellent retention of physical properties.

ADVASTAB TM-181, the first high-performance tin stabilizer, can be used in all applications requiring excellent dynamic stability during high-shear processing. ADVASTAB TM-181 offers high resistance to early vellowing (discoloration occurring early in the processing cycle) and long-term stability for protection during regrind processing and during extended residence time in equipment. These properties make it the product of choice for fabricators of siding, profiles and injection-molded articles. In addition, since its introduction, so much extrusion and outdoor weathering performance experience has been accumulated for ADVASTAB TM-181 that it has been adopted by siding manufacturers as the standard of the industry.

ADVASTAB TM-181FS, a food grade equivalent of TM-181, has been approved for use in PVC food packaging by numerous European regulatory agencies, including those in West Germany (BGA), the United Kingdom (BIBRA), Switzerland (EGA) and others.

ADVASTAB TM-187 is a second generation, high-performance product which was developed to offer improved early color retention, along with outdoor weathering properties comparable to ADVASTAB TM-181 but at lower costs.

ADVASTAB TM-692 and TM-592, our third generation, high-performance stabilizers introduced in 1975, gained rapid acceptance in pipe and conduit extrusion. TM-692 became an industry standard of performance and should be considered in any extrusion application where initial color, early color hold and economy of use are essential to the formulator.

Carstab has a continuing pro-

gram to develop improved stabilizers for every rigid PVC process, including the extrusion of pipe, siding and profiles, injection molding and injection blow molding. Early in 1981, Carstab introduced ADVASTAB TM-694, a unique low-cost stabilizer which offers significant cost/performance advantages in most rigid PVC pipe and profile applications. Its use provides excellent initial color stability with an exceptional ability to maintain early color during processing, even compared to high-efficiency methyl or butyltin stabilizers.

Two other low-cost stabilizers were introduced in 1980. ADVASTAB TM-764 is designed to provide the formulator of extruded weatherable profiles and siding with reliable processing and excellent retention of physical properties on exposure to weathering. ADVASTAB TM-604 provides the formulator of injection-molding compounds with a new level of cost/performance, ease of processing and retention of color and physical properties in the molded article.

ADVASTAB TM-948 is a highperformance stabilizer recommended for use in bottles, sheet and film applications where superior color and low-odor are required.

Lubricating Stabilizer

ADVASTAB LS-202, Carstab's one-pack lubricating stabilizer, is a new additive concept for rigid PVC extrusion. The product was designed to provide the complete lubrication requirements, both external and internal, and the tin stabilization requirements necessary for high output twin- and four-screw pipe production. Prior to the introduction of this product to the U.S. pipe industry, formulations were based on numerous combinations of individual ingredients.

Lubricating stabilizers offer simplified inventory and additive handling by reducing the number of microingredients. Weighing errors are nearly eliminated and each PVC resin particle is exposed to the same stabilizer-lubricant ratio and concentration. These factors result in more uniform powder blends, minimizing batch-to-batch variation which results in reducing the amount

of scrap pipe generated. Some pipe plants have found higher output rates when using ADVASTAB® LS-202 compared to their formulations with single ingredients.

In addition, the use of a lubricating stabilizer by a pipe company will free up a great deal of time normally devoted to developing formulations based on thousands of possible combinations of individual ingredients. This will allow pipe companies more time to optimize the mechanical aspects of the extrusion process and do more development work on new products for their line.

The simplification in technology offered by the lubricating stabilizer is of value to the pipe industry internationally, particularly in those countries where operation technical skills are difficult to obtain.

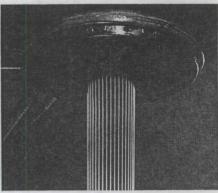
The lubricating stabilizer concept is also applicable to the extrusion of siding and profiles. Products for these applications are under development.

Antioxidants

Antioxidants retard the degradation of oxygen-sensitive polymers during processing and for the life of the product thereafter. Oxidation produces embrittlement and discoloration of the polymer.

CARSTAB® DLTDP (dilauryl thiodipropionate), DSTDP (disteary) thiodipropionate) and DMTDP (dimyristyl thiodipropionate) are peroxide decomposers which are most effective when used in synergistic combination with hindered phenolic and hindered amine antioxidants. CARSTAB DLTDP has widespread application in polyethylene, ABS (acrylonitrile butadiene styrene) and HIPS (high-impact polystyrene). CARSTAB DSTDP is employed where its greater lubricity and thermal stability are required and is widely used in polypropylene. CARSTAB DMTDP has properties intermediate between DLTDP and DSTDP and demonstrates many of the advantages of both. CARSTAB DLTDP and DSTDP can be used in highdensity polyethylene and polypropylene food contact applications in compliance with the appropriate FDA regulation.



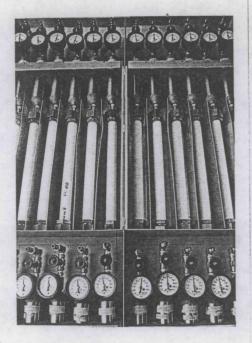


Above left: The Brabender Plasti-Corder,® a laboratory instrument to determine dynamic heat stability, is used to test plastics additives under simulated processing conditions.

Above right: Polypropylene multifilament fiber incorporating CARSTAB® ultraviolet light stabilizers is extruded in our Applications Laboratory. The fiber will be exposed outdoors and in accelerated weathering devices such as the Xenon Weather-ometer® to demonstrate the degree of protection from weathering.

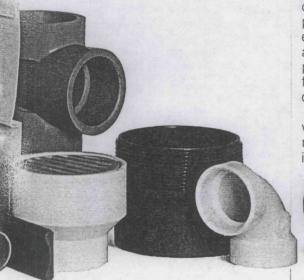
Right: Synthesis of experimental plastics additives containing various organic functional groups is an integral part of our new product research and development program.





Above: Hydrostatic testing of PVC potable water pipe containing ADVASTAB® heat stabilizers and Lubricating Stabilizers is carried out on our test racks. This laboratory facility is used for testing our developmental products and to provide technical service to our customers.

Below: ADVASTAB Lubricating Stabilizers, ADVASTAB organotin heat stabilizers and ADVAWAX® lubricants are used for efficient processing of rigid polyvinyl chloride into a wide range of common items such as pipe, house siding, window profiles, injection molded fittings and bottles.



Ultraviolet-light Stabilizers

Synthetic polymers are susceptible in varying degrees to degradation by the ultraviolet light in ordinary daylight resulting in loss of physical properties and discoloration.

CARSTAB® UV stabilizers are octoxybenzophenones which absorb the damaging 300-400 nm light wave lengths and convert this radiation to a less-damaging wave length. Both liquid and solid UV stabilizers are available so that the user can select the best product for his needs.

CARSTAB 701 and CARSTAB 702 are unique liquid benzophenone light stabilizers that retard color development and prevent loss of physical properties in polyolefins, flexible PVC, polyesters and various resins used in coatings. These liquid products eliminate dust problems since they are highly soluble and compatible in a wide range of resins and coating solvents. Due to their low viscosity, they are easily pumped and accurately metered into processing or mixing equipment. Both products exhibit low volatility and low toxicity.

CARSTAB 700 (2-hydroxy-4-noctoxybenzophenone) is a solid crystalline product widely used in polyolefin formulations. Both CARSTAB 700 and CARSTAB 701 are approved for use in polyolefins for food contact applications.

Synthetic Waxes

Synthetic waxes are employed for one or more of their unique properties, such as high-melting point, resistance to organic solvents, water insolubility, and high-surface orientation characteristics. These properties enable them to act as excellent internal-external lubricants, anti-blocking agents, pigment dispersants and mold-release agents for plastics applications and as defoamers for the paper industry.

ADVAWAX® bisamide synthetic waxes provide a range of desired melting points, controlled compatibility and several levels of lubricating

efficiency. These include ADVAWAX 240, 275, 280, 290 and 2610. These waxes are offered as light-colored, easy-to-use fine beads and are compatible with most natural and synthetic polymers. ADVAWAX 280 is widely used as a processing lubricant in ABS and rigid PVC compounds. ADVAWAX 2610 is specifically produced for superior performance in the manufacture of defoamers for the paper industry.

These bisamide waxes are also used to control the softening points of asphalts, dipping waxes, potting compounds and hotmelt adhesive formulations and as release agents. ADVASTAB® 240, 280 and 290 can be used in food-contact applications in compliance with the appropriate FDA regulations.

Organophosphorus Compounds

Carstab Corporation manufactures a range of quaternary phosphonium salts. These products are unique catalysts and accelerators with highly specific functionality. They are irreplaceable in certain applications.

Quaternary phosphonium halides are generally neutral ionic salts which are moderately reactive. These salts have been recommended as catalysts for the preparation of phenolic and epoxy resins, polyesters, polycarbonates, polyacrylates, polyolefins and silicones.

As examples of some areas of use, quaternary phosphonium compounds have found use as "phase transfer catalysts" in fluoroelastomer vulcanizing systems for applications requiring a low-compression set; and as very selective catalysts in liquid epoxy resins for the coatings industry.

Asphalt Additives

Carstab Corporation is the major producer of asphalt anti-stripping additives which improve the durability of bituminous concrete roads. These products enable asphalt to more effectively penetrate the moisture film that is always present on paving aggregate, thereby creating a stronger, more permanent bond between asphalt and aggregate. This stronger bond increases the strength of the pavement and retards "stripping" of the asphalt from



Top left: An accelerated water exposure test demonstrates how PAVE BOND™ anti-stripping additives prevent stripping of asphalt from bituminous concrete aggregate. After exposure the aggregate sample on the right retains a complete coating of PAVE BOND AP treated asphalt. The sample on the left shows severe stripping of untreated asphalt.

Above: A compression test instrument is used in our Asphalt Additive Laboratory to measure the strength of bituminous concrete containing PAVE BOND anti-stripping additives.

Bottom left: A bituminous concrete test strip containing PAVE BOND AP SPECIAL is laid down on an Interstate Highway. Paving strips in regions of the United States with different climatological conditions are used to demonstrate the effectiveness of PAVE BOND anti-stripping additives.

the aggregate by moisture encountered under normal road conditions.

Carstab was one of the pioneers in the field of anti-stripping agents. Our first generation products-PAVE™ 100, PAVE 192, PAVE BOND™ and PAVE BOND 192were among the early products in the field and became industry standards until 1977. In that year, Carstab introduced PAVE BOND LP and PAVE BOND SPECIAL which were easy-to-handle liquids and much more cost-effective than existing products. They were readily accepted by state Departments of Transportation, asphalt companies and contractors because of their excellent performance and the ease with which they could be handled.

Now PAVE BOND AP and PAVE BOND AP SPECIAL have been introduced as commercially available anti-stripping agents that demonstrate a high level of performance with all types of aggregatesiliceous (acidic granite) to calcareous (basic limestone). These new products exhibit other advantages compared to conventional products because their performance is not reduced by reactive asphalts as with other types of additives. In addition. they are extremely heat stable in the presence of asphalt allowing storage of treated asphalt for extended periods of time.

PAVE BOND AP and PAVE BOND AP SPECIAL find rapid acceptance by state Departments of Transportaion. Since pavement failure due to water stripping occurs throughout the depth of the roadbed, a program of user education is underway with state and federal agencies to acquaint them with the benefits of using Carstab's new products in the base and intermediate courses as well as in the wearing surface. Part of this program involves an intensified research and development program to develop new and more cost-efficient products and establish their effect on road life.

Petroleum Additives

Carstab Corporation produces extreme pressure (EP) additives for slide-way lubricants, heavy-duty gear lubricants and metal-cutting fluids. These additives provide the sulfur and/or chlorine that EP lubricants require to function effectively. Lubricant compounders can choose from a broad line of additives to optimize their formulations.

The CAR-A-VAN® 6000 series of products consists of both sulfurized and sulfur-chlorinated additives which are available in either active (corrosive to copper) or inactive (non-corrosive to copper) forms. CAR-A-VAN additives are soluble and compatible with high Viscosity Index paraffinic and naphthenic oils. These products offer versatility along with high performance.

Carstab Corporation offers a broad line of other additives, including emulsifiers and chlorinated hydrocarbons for EP cutting oils.

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